

The Hitch Hiker's Guide to LCA

An orientation in life cycle assessment methodology and application

HENRIKKE BAUMANN
ANNE-MARIE TILLMAN

The Hitch Hikers Guide To Lca

Owen W. Linzmayer



The Hitch Hikers Guide To Lca:

The Hitch Hiker's Guide to LCA Henrikke Baumann, Anne-Marie Tillman, 2004-01-01 The environmental life cycle of a product consists of all the stages from raw material extraction through production and use to waste management Life cycle assessment LCA then is the assessment of the environmental impact of a product throughout its life cycle The holistic perspective that LCA provides on the environmental performance of products has made it a central concept for both environmental management in industry and environmental policy making in public government This is a textbook on LCA for those who want to learn the practice of LCA e.g. environmental engineers, environmental managers and eco designers The title paraphrases Douglas Adams famous story The Hitch Hiker's Guide to the Galaxy in which the machine Deep Thought after seven and a half million years of computing come up with 42 as the answer to the great Question of Life the Universe and Everything Expectations on LCA are often similar simple answer to difficult environmental dilemmas and the result often as incomprehensible as 42 unless one knows how to interpret LCA methodology and results The book is organised in three parts covering LCA methodology LCA applications and exercises on LCA Two introductory chapters give a general overview of the LCA concept and its historical development After that LCA methodology is described in detail in six chapters Different fields of LCA application are covered in five subsequent chapters Since the aim of the book is to teach the execution of LCA there are also a number of exercises Smaller exercises train different aspects of LCA methodology and prepare for the larger ones ten complete LCA exercise projects

Environmental Management Accounting for Cleaner Production Stefan Schaltegger, Martin Bennett, Roger L. Burritt, Christine M. Jasch, 2008-10-10 Sustainability requires companies to develop in an economically environmentally and socially sustainable manner Corporate sustainable development in turn requires movement towards cleaner production In order to recognize the potential from cleaner production reduced costs and fewer environmental impacts through the reduced use of materials environmental management accounting EMA is a necessary information management tool Environmental Management Accounting for Cleaner Production reveals a set of tools for companies to collect evaluate and interpret the information they need to estimate their potential to use cleaner production to realize cost savings and to make the best decisions about the available cleaner production options EMA is therefore the key for driving environmental progress cost savings increased competitiveness and corporate sustainability through the means of cleaner production

Life Cycle Assessment (LCA) and Life Cycle Analysis in Tourism Viachaslau Filimonau, 2015-10-23 Tourism is an activity that anyone can take part in regardless of their age gender nationality or level of income This makes tourism one of the most rapidly developing industries in the world Despite the number of benefits which tourism produces it also has significant negative impacts on the environment To minimise the scope of these negative impacts joint efforts combining tourism and environmental management are called for This book examines the application of the Life Cycle Assessment LCA method and lifecycle thinking as a tool to generate more accurate and holistic appraisals of

the environmental impacts of tourism Looking at the issue of sustainability of tourism operations the book evaluates how it can be improved It highlights the potential of LCA to affect tourist behaviour and contribute to tourism policy making and managerial practice This book provides a valuable resource for undergraduates postgraduates and researchers interested in sustainable tourism sustainable development and environmental impact assessment Life Cycle Inventory Analysis Andreas Ciroth, Rickard Arvidsson, 2021-08-30 Life Cycle Inventory LCI Analysis is the second phase in the Life Cycle Assessment LCA framework Since the first attempts to formalize life cycle assessment in the early 1970 life cycle inventory analysis has been a central part Chapter 1 Introduction to Life Cycle Inventory Analysis discusses the history of inventory analysis from the 1970s through SETAC and the ISO standard In Chapter 2 Principles of Life Cycle Inventory Modeling the general principles of setting up an LCI model and LCI analysis are described by introducing the core LCI model and extensions that allow addressing reality better Chapter 3 Development of Unit Process Datasets shows that developing unit processes of high quality and transparency is not a trivial task but is crucial for high quality LCA studies Chapter 4 Multi functionality in Life Cycle Inventory Analysis Approaches and Solutions describes how multi functional processes can be identified In Chapter 5 Data Quality in Life Cycle Inventories the quality of data gathered and used in LCI analysis is discussed State of the art indicators to assess data quality in LCA are described and the fitness for purpose concept is introduced Chapter 6 Life Cycle Inventory Data and Databases follows up on the topic of LCI data and provides a state of the art description of LCI databases It describes differences between foreground and background data recommendations for starting a database data exchange and quality assurance concepts for databases as well as the scientific basis of LCI databases Chapter 7 Algorithms of Life Cycle Inventory Analysis provides the mathematical models underpinning the LCI Since Heijungs and Suh 2002 this is the first time that this aspect of LCA has been fundamentally presented In Chapter 8 Inventory Indicators in Life Cycle Assessment the use of LCI data to create aggregated environmental and resource indicators is described Such indicators include the cumulative energy demand and various water use indicators Chapter 9 The Link Between Life Cycle Inventory Analysis and Life Cycle Impact Assessment uses four examples to discuss the link between LCI analysis and LCIA A clear and relevant link between these phases is crucial **Metropolitan Sustainability** F Zeman, 2012-09-11 Global populations have grown rapidly in recent decades leading to ever increasing demands for shelter resources energy and utilities Coupled with the worldwide need to achieve lower impact buildings and conservation of resources the need to achieve sustainability in urban environments has never been more acute This book critically reviews the fundamental issues and applied science engineering and technology that will enable all cities to achieve a greater level of metropolitan sustainability and assist nations in meeting the needs of their growing urban populations Part one introduces key issues related to metropolitan sustainability including the use of both urban metabolism and benefit cost analysis Part two focuses on urban land use and the environmental impact of the built environment The urban heat island effect

redevelopment of brownfield sites and urban agriculture are discussed in depth before part three goes on to explore urban air pollution and emissions control Urban water resources reuse and management are explored in part four followed by a study of urban energy supply and management in part five Solar wind and bioenergy the role of waste to energy systems in the urban infrastructure and smart energy for cities are investigated Finally part six considers sustainable urban development transport and planning With its distinguished editor and international team of expert contributors Metropolitan sustainability is an essential resource for low impact building engineers sustainability consultants and architects town and city planners local municipal authorities and national and non governmental bodies and provides a thorough overview for academics of all levels in this field Critically reviews the fundamental issues and applied science engineering and technology that will enable all cities to achieve a greater level of metropolitan sustainability Will assist nations in meeting the needs of their growing urban populations Chapters discuss urban land use the environmental impact of the build environment the urban heat island effect urban air pollution and emissions control among other topics

Apple Confidential 2.0 Owen W. Linzmayer, 2004 Chronicles the best and the worst of Apple Computer's remarkable story

Greenhouse Gas Balances of Bioenergy Systems Patricia Thornley, Paul Adams, 2017-11-27 Greenhouse Gases Balance of Bioenergy Systems covers every stage of a bioenergy system from establishment to energy delivery presenting a comprehensive multidisciplinary overview of all the relevant issues and environmental risks It also provides an understanding of how these can be practically managed to deliver sustainable greenhouse gas reductions Its expert chapter authors present readers to the methods used to determine the greenhouse gas balance of bioenergy systems the data required and the significance of the results obtained It also provides in depth discussion of key issues and uncertainties such as soil agriculture forestry fuel conversion and emissions formation Finally international case studies examine typical GHG reduction levels for different systems and highlight best practices for bioenergy GHG mitigation For bringing together into one volume information from several different fields that was up until now scattered throughout many different sources this book is ideal for researchers graduate students and professionals coming into the bioenergy field no matter their previous background It will be particularly useful for bioenergy researchers seeking to calculate greenhouse gas balances for systems they are studying I will also be an important resource for policy makers and energy analysts Uses a multidisciplinary approach to synthesize the diverse information that is required to competently execute GHG balances for bioenergy systems Presents an in depth understanding of the science underpinning key issues and uncertainty in GHG assessments of bioenergy systems Includes case studies that examine ways to maximize the GHG reductions delivered by different bioenergy systems

Routledge Handbook of the Resource Nexus Raimund Bleischwitz, Holger Hoff, Catalina Spataru, Ester van der Voet, Stacy D. VanDeveer, 2017-12-14 In recent years the concept of the resource nexus has been both hotly debated and widely adopted in research and policy circles It is a powerful new way to understand and better govern the myriad complex relationships between multiple resources

actors and their security concerns Particular attention has been paid to water energy and food interactions but land and materials emerge as critical too This comprehensive handbook presents a detailed review of current knowledge about resource nexus related frameworks methods and governance including a broad set of inter disciplinary perspectives Written by an international group of scholars and practitioners the volume focuses on rigorous research including tools methods and modelling approaches to analyse resource use patterns across societies and scales from a nexus perspective It also provides numerous examples from political economy to demonstrate how resource nexus frameworks can illuminate issues such as land grabs mining renewable energy and the growing importance of economies such as China as well as to propose lessons and outlooks for sound governance The volume seeks to serve as an essential reference text source book and state of the art science based assessment of this increasingly important topic the resource nexus and its utility in efforts to enhance sustainability of many kinds and implement the United Nations Sustainable Development Goals in an era of environmental and geopolitical change

Biorefineries and Chemical Processes Jhuma Sadhukhan,Kok Siew Ng,Elias Martinez Hernandez,2014-08-25 As the range of feedstocks process technologies and products expand biorefineries will become increasingly complex manufacturing systems Biorefineries and Chemical Processes Design Integration and Sustainability Analysis presents process modelling and integration and whole system life cycle analysis tools for the synthesis design operation and sustainable development of biorefinery and chemical processes Topics covered include Introduction An introduction to the concept and development of biorefineries Tools Included here are the methods for detailed economic and environmental impact analyses combined economic value and environmental impact analysis life cycle assessment LCA multi criteria analysis heat integration and utility system design mathematical programming based optimization and genetic algorithms Process synthesis and design Focuses on modern unit operations and innovative process flowsheets Discusses thermochemical and biochemical processing of biomass production of chemicals and polymers from biomass and processes for carbon dioxide capture Biorefinery systems Presents biorefinery process synthesis using whole system analysis Discusses bio oil and algae biorefineries integrated fuel cells and renewables and heterogeneous catalytic reactors Companion website Four case studies additional exercises and examples are available online together with three supplementary chapters which address waste and emission minimization energy storage and control systems and the optimization and reuse of water This textbook is designed to bridge a gap between engineering design and sustainability assessment for advanced students and practicing process designers and engineers

Taking Stock of Industrial Ecology Roland Clift,Angela Druckman,2015-12-11 How can we design more sustainable industrial and urban systems that reduce environmental impacts while supporting a high quality of life for everyone What progress has been made towards reducing resource use and waste and what are the prospects for more resilient material efficient economies What are the environmental and social impacts of global supply chains and how can they be measured and improved Such questions are at the heart of the emerging discipline

of industrial ecology covered in Taking Stock of Industrial Ecology Leading authors researchers and practitioners review how far industrial ecology has developed and current issues and concerns with illustrations of what the industrial ecology paradigm has achieved in public policy corporate strategy and industrial practice It provides an introduction for students coming to industrial ecology and for professionals who wish to understand what industrial ecology can offer a reference for researchers and practitioners and a source of case studies for teachers

The Oxford Handbook of Business and the Natural Environment Pratima Bansal, Andrew J. Hoffman, 2012 This Handbook discusses the main issues research and theory on business and the natural environment and how they impact on different business functions and disciplines

Ocean Recovery Ray Hilborn, Ulrike Hilborn, 2019-06-27 Over the last two decades the scientific and popular media have been bombarded by gloom and doom stories of the future of fisheries the status of fish stocks and the impact of fishing on marine ecosystems Dozens of certification and labeling schemes have emerged to advise consumers on what seafood is sustainable In recent years an opposing narrative has emerged emphasizing the success of fisheries management in many places the increasing abundance of fish stocks in those places and the prescription for sustainable fisheries However there has been no comprehensive survey of what really constitutes sustainability in fisheries fish stock status success and failures of management and consideration of the impacts of fishing on marine ecosystems This book will explore very different perspectives on sustainability and bring together the data from a large number of studies to show where fish stocks are increasing where they are declining the consequences of alternative fisheries management regimes and what is known about a range of fisheries issues such as the impacts of trawling on marine ecosystems Ocean Recovery is aimed principally at a general audience that is already interested in fisheries but seeks both a deeper understanding of what is known about specific issues and an impartial presentation of all the data rather than selected examples used to justify a particular perspective or agenda It will also appeal to the scientific community eager to know more about marine fisheries and fishing data and serve as the basis for graduate seminars on the sustainability of natural resources

Kirk-Othmer Chemical Technology and the Environment, 2 Volume Set Wiley, 2007-05-21 The two volume reference work Chemical Technology and the Environment provides readers with knowledge on contemporary issues in environmental pollution prevention and control as well as regulatory health and safety issues as related to chemical technology It introduces and expands the knowledge on emerging green materials and processes and greener energy technology as well as more general concepts and methodology including sustainable development and chemistry and green chemistry Based on Wiley's renowned Kirk Othmer Encyclopedia of Chemical Technology this compact reference features the same breadth and quality of coverage and clarity of presentation found in the original

Natural Resources and Sustainability Daniel E. Vasey, Sarah E. Fredericks, Lei Shen, Shirley Thompson, 2011-12-08 Natural Resources and Sustainability explores how human needs and desires from sustenance and shelter to recreation and travel have spurred the consumption of Earth's material resources Scientists

ecologists and other expert authors present the historical impact of commercial activities in industries as varied as fisheries agriculture energy and mineral extraction discuss the global distribution and use of renewable and nonrenewable resources and focus on innovative approaches for the future Readers will learn why renewal doesn't necessarily put a resource beyond harm and why the no free lunch adage applies to all natural resources

Electronic Waste Maria E. Holuszko, Amit Kumar, Denise C. R. Espinosa, 2022-03-21 Discover the latest technologies in the pursuit of zero waste solutions in the electronics industry In *Electronic Waste Recycling and Reprocessing for a Sustainable Future* a team of expert sustainability researchers delivers a collection of resources that thoroughly examine methods for extracting value from electronic waste while aiming for a zero waste scenario in industrial production The book discusses the manufacturing and use of materials in electronic devices while presenting an overview of separation methods for industrial materials Readers will also benefit from a global overview of various national and international regulations related to the topic of electronic and electrical waste A must read resource for scientists and engineers working in the production and development of electronic devices the authors provide comprehensive overviews of the benefits of achieving a zero waste solution in electronic and electrical waste as well as the risks posed by incorrectly disposed of electronic waste Readers will enjoy An introduction to electronic waste including the opportunities presented by zero waste technologies and solutions Explorations of e waste management and practices in developed and developing countries and e waste transboundary movement regulations in a variety of jurisdictions Practical discussions of approaches for estimating e waste generation and the materials used in electronic equipment and manufacturing perspectives In depth treatments of various recycling technologies including physical separation pyrometallurgy hydrometallurgy and biohydrometallurgy Perfect for materials scientists electronic engineers and metal processing professionals *Electronic Waste Recycling and Reprocessing for a Sustainable Future* will also earn a place in the libraries of industrial chemists and professionals working in organizations that use large amounts of chemicals or produce electronic waste

Nano-enabled Sustainable and Precision Agriculture Peng Zhang, Iseult Lynch, J.C. White, Richard D. Handy, 2023-08-06 Nano enabled Sustainable and Precision Agriculture is the first single volume resource to cover this important field using a whole systems approach that considers both opportunities and challenges The book provides a comprehensive understanding of the role of nanotechnology in agriculture from broad aspects but also includes a comprehensive view of the interaction of nanomaterials with soil plant systems It highlights aspects not described in previous books including the application of nanoinformatics and artificial intelligence in nano enabled sustainable agriculture the application of nanotechnology in alternative forms of agriculture such as hydroponics and regulatory frameworks for this research field The book addresses all these aspects by including sections on enhanced sustainability reduced pollution and enhanced ecosystems health and the role of nanoinformatics and machine learning Provides foundational insights and resources for each area including soil science water chemistry nanoscience plant science microbiology and nanoinformatics

Focuses on mechanisms of action transformations and the underpinning chemistry and biochemistry Includes linkages and cross referencing between chapters to ensure a cohesive and comprehensive resource Environmentally-Friendly Food Processing B Mattsson,U Sonesson,2003-09-30 Environmental awareness in the food industry has become increasingly important in recent years as a result of consumer pressure and increasing regulation This book addresses how to achieve environmentally friendly food production reviewing the assessment of various food products and the ways in which the industry can improve their operations and become more environmentally responsible Part one evaluates the environmental impact of food processing operations in such areas as fruit vegetable meat and fish processing Part two moves on to address good practice in food processing reviewing packaging recycling and waste treatment as well as methods of improving energy consumption and environmental training for the food industry Environmentally friendly food processing is an essential reference for all those concerned with environmental awareness and responsibility in the food industry Addresses how to achieve environmentally friendly food production reviewing the assessment of various food products and how the industry can become more environmentally responsible Evaluates the environmental impact of food processing operations in such areas as fruit vegetable meat and fish processing Reviews packaging recycling and waste treatment as well as methods of improving energy consumption and environmental training for the food industry Environmental Contamination Ming Hung Wong,2012-07-24 Bringing together the research of 62 distinguished scientists in one volume Environmental Contamination Health Risks and Ecological Restoration offers a comprehensive view of the remediation of contaminated land A one stop resource it covers historical and emerging contaminants the issues of bioavailability of chemicals and their associated hu *From Red to Green?* Paul Donovan,Julie Hudson,2013-01-11 Written by an economist and an investment professional this book addresses the twin crises that the world is facing in the form of a simultaneous financial and environmental credit crunch Financially consumers are less able to consume now and pay later Environmentally we may have already reached our credit limit and the bill for past financial and environmental consumption is falling due Whether the financial credit crunch constrains consumers in a way that will be environmentally supportive naturally slowing the consumption of finite resources or hinders any effective resolution of the environmental credit crunch is of crucial importance Policy responses to the financial crisis are likely to be constrained by the political need to support the economic status quo and when combined with a global reduction in available investment capital there are serious challenges ahead if the economic and environmental damage of the environmental credit crunch is to be minimised This book asks whether financial crunch induced changes in consumer behaviour will be enough to avoid or reduce the environmental crunch many believe is just round the corner Donovan and Hudson combine their respective economic and environmental perspectives to address this key question reviewing this tale of two crunches from the perspective of different economic sectors The answer to the conundrum this book poses may lie in the only unlimited resource on the planet human ingenuity **Sustainable**

Design Daniel A. Vallero, Chris Brasier, 2008-04-25 Scientific Principles to Guide Sustainable Design Decisions From thermodynamics to fluid dynamics to computational chemistry this book sets forth the scientific principles underlying the need for sustainable design explaining not just the hows of sustainable design and green engineering but also the whys Moreover it provides readers with the scientific principles needed to guide their own sustainable design decisions Throughout the book the authors draw from their experience in architecture civil engineering environmental engineering planning and public policy in order to build an understanding of the interdisciplinary nature of sustainable design Written to enable readers to take a more scientific approach to sustainable design the book offers many practical features including Case studies presenting the authors firsthand accounts of actual green projects Lessons learned from Duke University's Smart House Program that demonstrate the concepts and techniques discussed in the book Exercises that encourage readers to use their newfound knowledge to solve green design problems Figures tables and sidebars illustrating key concepts and summarizing important points For architects designers and engineers this book enables them to not only implement green design methods but also to choose these methods based on science With its many examples case studies and exercises the book is also an ideal textbook for students in civil and environmental engineering construction and architectural engineering

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